



IXARC Absolute Rotary Encoder

OCD-P1A1G-0016-B06S-PAT



Interface

Interface	Bit Parallel preset
Manual Functions	Preset + complement via cable or connector
Interface Cycle Time	150 μ s

Outputs

Output Driver	Push-Pull
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Electrical Data

Supply Voltage	10 - 30 VDC
Current Consumption	≤ 400 mA @ 10 V DC, ≤ 180 mA @ 24 V DC
Power Consumption	≤ 1.5 W
Start-Up Time	< 250 ms
Settling Time	80 ms
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
MTTF	22.3 years @ 40 °C

Sensor

Technology	Optical
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Resolution Singleturn	16 bit
Accuracy (INL)	$\pm 0.0220^\circ$ (14 - 16 bit), $\pm 0.0439^\circ$ (≤ 13 bit)
Sense Signal (Default)	Clockwise shaft movement (front view on shaft)
Code	Gray

Environmental Specifications

Protection Class (Shaft)	IP66/IP67
Protection Class (Housing)	IP65
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Humidity	98% RH, no condensation

Mechanical Data

Housing Material	Steel
Housing Coating	Cathodic corrosion protection (>720 hrs salt spray resistance)
Flange Type	Blind Hollow, \varnothing 58 mm (B)
Flange Material	Aluminum
Shaft Type	Blind Hollow, Depth = 30 mm
Shaft Diameter	\varnothing 6 mm (0.24")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Rotor Inertia	$\leq 30 \text{ gcm}^2$ [$\leq 0.17 \text{ oz-in}^2$]
Friction Torque	$\leq 5 \text{ Ncm}$ @ 20 °C, (7.1 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	$\leq 3000 \text{ 1/min}$
Shock Resistance	$\leq 100 \text{ g}$ (half sine 6 ms, EN 60068-2-27)
Permanent Shock Resistance	$\leq 10 \text{ g}$ (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	$\leq 10 \text{ g}$ (10 Hz - 1000 Hz, EN 60068-2-6)
Length	60,2 mm (2.37")
Weight	350 g (0.77 lb)

Electrical Connection

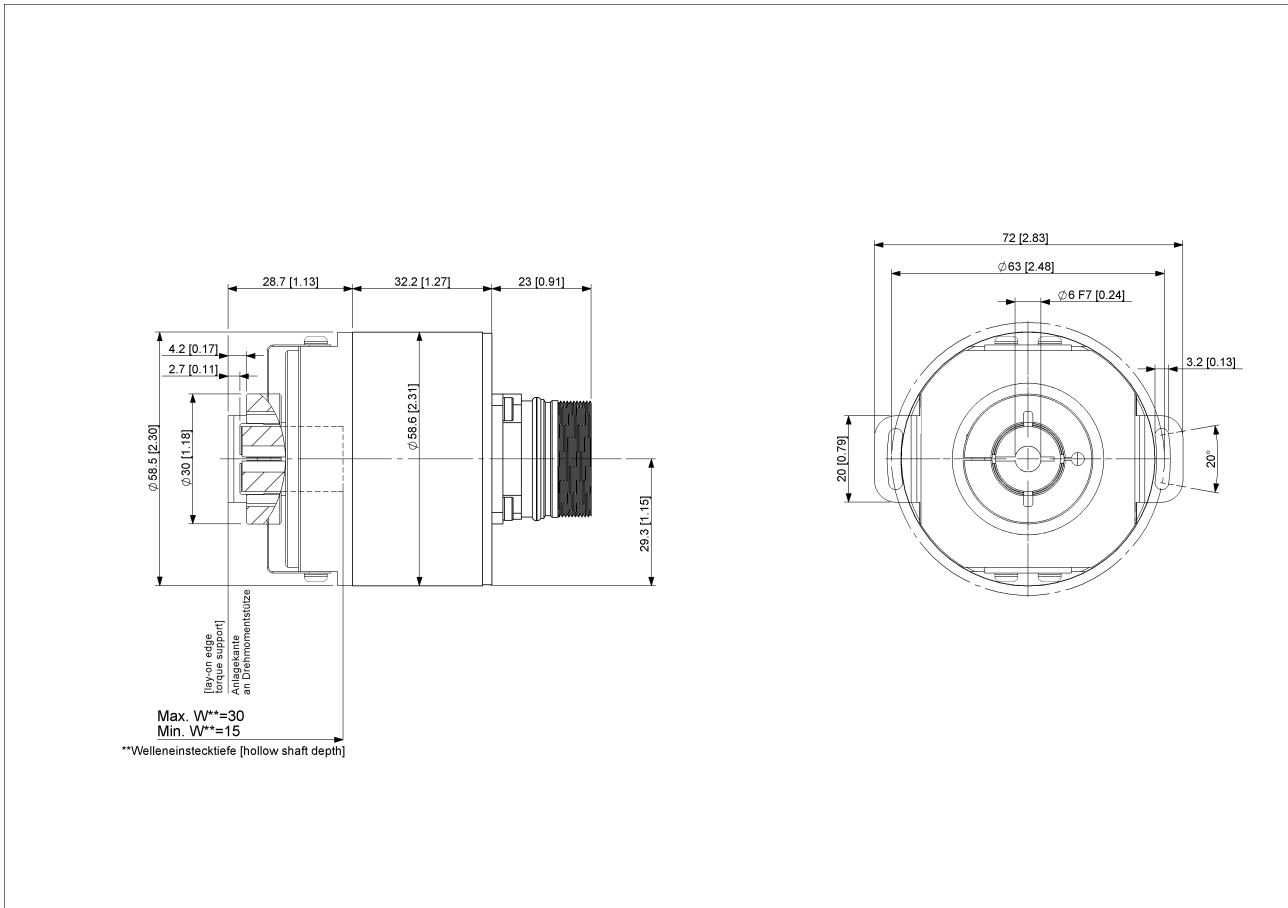
Connection Orientation	Axial
Connector	M27, Male, 26 pin

Certification

Approval	CE + cULus listed, Industrial Control Equipment
Product Life Cycle	Established



Connection Plan



[2D Drawing](#)

Accessories

Connectors & Cables

10m PVC Cable, 26pin, f

5m PVC Cable, 26pin, f

20m PVC Cable, 26pin, f

15m PVC Cable, 26pin, f

2m PVC Cable, 26pin, f

M27, 26pin, Female

More

Clamping Ring B15

Contact

Data Sheet

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The picture and drawing are for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. All dimension in [inch] mm. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.